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	CENTRAL INTELLIGENCE AGENCY	REPORT				
	information report	CD NO.				
COUNTRY	Runania	DATE DISTR. 5 MAR 51				
SUBJECT	Turbine Construction by the Institute of Industrial Projects (IPI)	NO. OF PAGES 2				
PLACE ACQUIRED		NO. OF ENCLS. (LISTED BELOW)				
DATE OF INFO.		SUPPLEMENT TO 50X1-HUM REPORT NO.				
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	The Institute of Industrial Projects (IPI - Institute is subordinate to the Ministry of Metallurgy and Chestablished in 1948 as a continuation of the Rumani Industrial and Metallurgical Prefabrications (CIMP) IPI is composed of several services which cover such as machine tools, hoisting machinery, steam boilers organization of factories, civil construction, and installations. These services receive orders from	emical Industry. It was an Government Central Section. h industrial planning items , pumps, steam turbines, machinery for mining				
3.	An experimental workshop is attached to the Institute with the aim of making and experimenting in the manufacture of new machinery; it was, however, only able to build machinery but not experiment. Machines originally defective were altered and perfected. This was the case in a series of machine tools for making ball bearings, made according to German and Soviet specifications. Trials and corrections were begun on ball bearings in June 1950.					
Ą,	In February 1950 a turbine was on the planning board which was to have a power of 100 kilowatts and 3,000 revolutions per minute. This was in connection with a pump belonging to a steam boiler of the Sovromchim firm at Ucea, near Fageras. The turbine was finished and installed by 15 July 1950.					
5,	On 1 August 1950 an order for 10 turbines for the Soviet Union was placed. They were each scheduled to be 3,000 kilowatts, 3,000 revolutions per mixute at 32 ata (sic), and at 4500 centigrade. This type of turbine was copied after a MAN turbine ordered in Germany before 1944 by an electric plant, and only part of which reached Rumania. The part reaching Rumania consisted of disphrams, admission valves, the rotor (axle and discs with pallets), a pressure regulator, and some general plans.					
	a. On 7 October 1950 copies of the blueprints of the above turbine were sent to the factory in Resita, and to the experimental workshop in Bucharest.					
	b. The rotors for the turbines are being ordered	50X1-HUM				
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- e. The turbines have nine variances of high pressure, and six variances of low pressure.
- d. The above turbines are being made by copying existing places, completing missing pieces, and senetimes using original plans. The experimental station had Brown Boveri reactions (sit) and some apparatus such as oil coolers and auxiliary pumps that were used in the above turbines.
- 6. While the turbines were being constructed it was decided to undertake the re-palleting of turbines for all electric power plants in the country. This was necessary because of the lack of original profiles, and the impossibility of importing them from abroad. A system had to be deviced to take the profile of the pallets with the aid of patterns of gypsum or war. The reters or diaphrams were unserved during the turbine revision without being able to undo the pallets. The pallets were generally too small to permit a proper pattern to be taken. The new ones would deteriorate and not give proper performance.
- 7. The question of re-pallsting is an important espect in the Rumandan economy. On their functioning depends the proper running of electric plants which produce the necessary power for developing new industries, and keep the old ones in operation. Power plants have partially used up their turbines, and have onhausted all stocks of reserve turbines.
- 8. A tem year old electrification progrem for Rumania has been planned, which will require turbines in large quantities.

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